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Wormhole run-time reconfiguration

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R Bittner, P Athanas - Proceedings of the 1997 ACM fifth ..., 1997 - portal.acm.org
... are many occasions in configurable computing when it is advantageous to **reconfigure** part of a ... where X is the number of operand pairs that may be processed without **reconfiguration**. ... graph topology is mapped onto a computational system consisting of a **heterogeneous** set of ...

Cited by 73 - Related articles - All 21 versions

Configuration and control unit for a heterogeneous multi-system

JL Fox, EE Marquardt - US Patent 4,075,693, 1978 - Google Patents
... multi-system can contain **heterogeneous** processors, No ... bar switches, I/O con- of a central processor and storage means and uses a trol **unit** switches, consoles ... and configura- fers from the problem of being unable to restore the tion control, rather than only **reconfiguration** control ...

Cited by 60 - Related articles - All 5 versions

Heterogeneous networking: a new survivability paradigm

psu.ed

Y Zhang, H Vin, L Alvisi, W Lee, SK ... - Proceedings of the 2001 ..., 2001 - portal.acm.org
... To develop the mechanisms for **heterogeneous** replication, we will build upon the tools for (off-line) switching and migrating ... This is to **reconfigure**, on the fly, the composition of **network** elements. ... Furthermore, dynamic **reconfiguration** can be used as a pre- emptive measure. ...

Cited by 29 - Related articles - All 17 versions

Crystalline robots: Self-reconfiguration with compressible unit modules

D Rus, M Vona - Autonomous Robots, 2001 - Springer
... module concept and show the basic motions that enable a Crystalline robot system to self-**reconfigure**. ... Theorem 1; thus the Crystalline Atom can be the basis for a self-**reconfiguring** robot system ... A **reconfiguration** plan is feasible iff at no time during the execution of the plan does ...

Cited by 163 - Related articles - BL Direct - All 10 versions

[PDF] A 3-D self-reconfigurable structure

aist.go

S Murata, H Kurokawa, E Yoshida, K Tomita ... - ... on Robotics and ..., 1998 - staff.aist.go.jp
... Such systems are made of many homogeneous/**heterogeneous** mechanical units, but these units must be manually ... disappears, if we regard a pair of the **unit** as the primitive **element** of the ... There are two basic methods of **reconfiguration**: one is movement on a plane, the other is ...

Cited by 202 - Related articles - View as HTML - BL Direct - All 2 versions

Concept of self-reconfigurable modular robotic system

S Murata, E Yoshida, H Kurokawa, K Tomita, S ... - Artificial Intelligence in ..., 2001 - Elsevier
... of the first self-reconfigurable systems, where the modules in the system were **heterogeneous** such as ... the following sections, we will explain basic design of module hardware, its self-**reconfiguration** method and ... This motion enables a group of modules to **reconfigure** themselves ...

Cited by 16 - Related articles - All 2 versions

[PDF] A study of computational reconfiguration in a process network

psu.ed

D Webb, A Wendelborn, J Vayssiere - IDEA7, Victor Harbour, South ..., 2000 - Citeseer
... Process **network** nodes can also **reconfigure** by disappearing from the process **network**; [KM77] describe this as ... involves only the **reconfiguring** process and its input and output channels; ... The point here is that, in considering mutation for **reconfiguration** in a separate part of the ...

Cited by 16 - Related articles - View as HTML - All 9 versions

Experiences with open overlays: a middleware approach to network heterogeneity

ku leuven

P Grace, D Hughes, B Porter, GS Blair, G Coulson, F ... - 2008 - portal.acm.org

... as a basis for determining the conditions under which the system might best be **reconfigured**. ... Figure 7a shows the per-node time required to **reconfigure** between FH and SP spanning ... When **reconfiguring** from FH to SP, **network** power costs an average of 44.2 milliwatt hours of ...

Cited by 13 - Related articles - BL Direct - All 12 versions

Interconnecting **heterogeneous** nodes in an adaptive computing machine

F Furtek, E Hogenauer, J Scheuermann - Lecture notes in computer ..., 2004 - Springer

... state reflects the fact that input buffers are usually empty at system initialization/**reconfiguration**. ... this capability, the node wrap- per makes available to the execution **unit** the identities of ... distributed mechanism for handling streaming data in a system with **heterogeneous** nodes. ...

Cited by 7 - Related articles - BL Direct - All 3 versions

Quantitative assessment of large **heterogeneous** R&D networks: the case of ...

RJW Tijssen - Research Policy, 1998 - Elsevier

... Such **heterogeneous** networks tend to play a crucial role in facilitating cross-sectoral communication and interaction ... To this end, R&D networking was included as a separate **element** in a series of ... article presents the results of such an follow-up study on the R&D **network** in the ...

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Did you mean: **configure** + (heterogeneous OR different) + connection + functions**[PDF] Routing of multipoint connections**

uni-kar

BM Waxman - IEEE Journal on selected areas in ..., 1988 - i1www.iti.uni-karlsruhe.de

... 2). Note that the algorithms in A may or may not be allowed to use **reconfiguration**, depending on ... 5 and 6. For these experiments, five **different** 25 node random graphs were generated according to ... if an event was to be an addition or deletion of a node from the **connection**. ...

Cited by 1782 - Related articles - All 7 versions

[CITATION] Algorithms for reconfigurable networks

G Gopal, CK Kim, A Waltrip - Teletraffic and Datatraffic in a Period of ..., 1991 - North-Holland

Cited by 46 - Related articles - All 2 versions

Reconfiguration with time division multiplexed MIN's for multiprocessor ...

psu.ed

C Qiao, R Melhem - IEEE Transactions on Parallel ..., 1994 - doi.ieeecomputersociety.org

... there is a need to set the switch by using the external signal control-set (as is the case in dynamic **reconfiguration**), the signal ... In order to efficiently partition a set of arbitrary **connections**, which may not be a permutation, into conflict-free subsets, **different** heuristic algorithms ...

Cited by 69 - Related articles - All 17 versions

Built-in self-test of FPGA interconnect

pucrs.br

C Stroud, S Wijesuriya, C ... - International Test ..., 1998 - doi.ieeecomputersociety.org

... without any overhead, since the BIST logic "disappears" when the circuit is **reconfigured** for its ... To avoid reusing the same wire segments in the **different** logic BIST configurations, we con ... the board or system-level BIST is complete, the test controller must **reconfigure** the FPGA for ...

Cited by 133 - Related articles - All 7 versions

Self-reconfiguring robots

psu.ed

D Rus, Z Butler, K Kotay, M Vona - Communications of the ACM, 2002 - portal.acm.org

... physical mechanisms allowing modules to dynamically and automatically configure and **reconfigure** themselves into ... Most existing **self-reconfiguring** robot systems are based on the unit-modular ... that would confer a unit-modular robot system with **self-reconfiguration** [6]. Guided ...

Cited by 87 - Related articles - All 15 versions

Model-based software synthesis

B Abbott, T Bapty, C Biegl, G Karsai, J ... - IEEE ..., 1993 - doi.ieeecomputersociety.org

... is a complex, real-time signal-processing system that runs on a **heterogeneous** network of ... and the model database.7 Because our approach lets users dynamically **reconfigure** the processing ... The **reconfiguration** process is triggered by an event received by a builder object ...

Cited by 59 - Related articles - All 5 versions

Programmable connector

S Farago - US Patent 4,972,470, 1990 - Google Patents

... to inquire and determine the requisite connecting **function** and to **reconfigure** itself accord ... In another embodiment the connector is electrically programmed and later erased for **reconfiguration**. ... the program is either downloaded at every power-on cycle, or **reconfigured** "on the fly" ...

Cited by 55 - Related articles - All 2 versions

... and method for automatically reconfiguring telephone network resources

EK Cave, DH Hammond, MJ Polcyn - US Patent 4,959,854, 1990 - Google Patents

... apparatus and method are provided for automatically managing and **reconfiguring** resource modules ... dynamically to. Per-module 302 so as to have that module **reconfigure** itself form ... during said particular telephone con-source module 302, can be **reconfigured** any number ...

Cited by 17 - Related articles - All 2 versions

[CITATION] Mobility support in a wireless ATM network

R Yuan, S Biswas, D Raychaudhuri - Wireless Information Networks, Architecture, Resource ...

Cited by 34 - Related articles - BL Direct

[CITATION] Reconfiguration method for a distributed mechanical system

K Tomita, S Murata, E Yoshida, H ... - ... robotic systems 2, 1996 - Springer Verlag

Cited by 20 - Related articles

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Did you mean: **configure** + heterogeneous + connection + functions**[PDF] Dynamic reconfiguration of streaming graphs on a heterogeneous ...**

psu.ed

M Rutten, EJ Pol, J van Eijndhoven, K Walters, G ... - IS&T/SPIE Electron. ..., 2005 - Citeseer
... simple and easy to use, the interface addresses the key challenge of **reconfiguring** individual tasks ... The Report primitive can also be used to **reconfigure** the task or application on the sole ... once each task will check the location argument value in its shell to allow **reconfiguration**. ...

Cited by 16 - Related articles - View as HTML - All 7 versions

[PDF] Heterogeneous distributed virtual machines in the Harness metacomputing ...

psu.ed

M Migliardi, V Sunderam - Proceedings of IEEE HCW'99, 1999 - Citeseer
... in investigating and developing a mechanism for fault tolerant, dynamic **reconfiguration** and management of ... service baseline (see figure 1, level 4). Users may **reconfigure** the DVM at ... a different implementation of a service for each type of **heterogeneous** computational resource ...

Cited by 11 - Related articles - View as HTML - All 8 versions

Dynamic reconfiguration with I/O abstraction

psu.ed

B Swaminathan, KJ Goldman - Proceedings of the ..., 1995 - doi.ieeecomputersociety.org
Reconfiguration Before proceeding with our discussion of dynamic **reconfiguration**, we note that ... grammis environment, along with the **connection** manager, satisfies the requirements identified in Sec- tion 1. Reauirement (R1) , colmunication among **heterogeneous** hosts, is ...

Cited by 10 - Related articles - All 13 versions

[PDF] A 1-V heterogeneous reconfigurable DSP IC for wireless baseband digital ...

psu.ed

H Zhang, V Prabhu, V George, M Wan, M Benes ... - IEEE Journal of Solid- ..., 2000 - Citeseer
... Although the underlying system is **heterogeneous**, the DSP algorithms usually have inherently ... architectures, regular interconnect architecture achieve better routability and less **reconfiguration** overhead. ... channel and hierarchical switchboxes, located at the key **connection** points ...

Cited by 71 - Related articles - View as HTML - BL Direct - All 12 versions

[PDF] Designing an operating system for a heterogeneous reconfigurable SoC

psu.ed

V Nollet, P Coene, D Verkest, S Vernalde, R ... - ... (RAW), Proceedings of ... - Citeseer
... From their case studies, they derived that the ability to **reconfigure** an FPGA, reserve a ... can do the actual task placement with minimal overhead, by partially **reconfiguring** the cho ... Systems capable of handling run-time **reconfiguration** with hardware that originated from a foreign ...

Cited by 87 - Related articles - View as HTML - All 22 versions

Titan: A tiny task network for dynamically reconfigurable heterogeneous sensor ...

C Lombriser, D Roggen, M Stäger, G Tröster - ... In Verteilten Systemen (..., 2007 - Springer
... The Task Manager is the system allowing to **reconfigure** a sensor ... allows only a small number of different task sets to execute, while Titan can be **reconfigured** to a ... to enable Titan to dynamically rearrange single tasks during the execution instead of **reconfiguring** whole nodes ...

Cited by 12 - Related articles - All 2 versions

[PDF] AwareWare: an adaptation middleware for heterogeneous environments

ufpe.br

Q Wang, L Cheng - Proc. of ICC, 2004 - cin.ufpe.br
... two basic approaches to achieve a better or consistent QoS in **heterogeneous** networks ... One approach is to dynamically **reconfigure** the middleware itself, thus legacy applications do not ... The other approach is that **reconfiguration** occurs in the application level, which offers more ...

Cited by 5 - Related articles - View as HTML - All 6 versions

[PDF] ... in the development and maintenance of heterogeneous distributed real-time ...

upatras

AS Prayati, AP Kalogerias, K Lorantz, S ... - ... of International Workshop ... - apei.ee.upatras.gr

... and **reconfiguration**. The utilisation of the internet and the provision of e-services to the industry will also have impact ... utilising a client-server architecture in order to easily set-up, change or **reconfigure** a LonWorks network. ... **reconfigured** and self-maintained. ...

Cited by 5 - Related articles - View as HTML - All 4 versions

Reconfigurable systems in a **heterogeneous** environment

M Dillinger, S Buljore - ... : architectures, systems, and functions, 2003 - books.google.com

... applicable when only parts of the terminal are being **reconfigured** (eg digital ... 1.2. 3 Network

Coupling and **Reconfiguration** Support The integration scheme used for the ... Reconfigurable Systems in a **Heterogeneous** Environment 15 • SF Handover Management Mode Negotiation ...

Cited by 3 - Related articles - All 5 versions

wiley.c

[CITATION] Performance investigations of ARMH in a reconfigurable environment

J Luo, E Mohyeldin, N Motte, M Dillinger - SCOUT workshop, Paris, 2003

Cited by 9 - Related articles

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uni-kar

BM Waxman - IEEE journal on selected areas in ..., 1988 - [1]www.iti.uni-karlsruhe.de
 ... In addition we are given a **function** $B: C \rightarrow Z^+$ which associates a bandwidth with each **connection**. This version comes in two flavors, one which allows **reconfiguration** and a second for which **reconfiguration** is not allowed. ...

Cited by 1782 - Related articles - All 7 versions

[CITATION] Algorithms for reconfigurable networks

G Gopal, CK Kim, A Welttrib - Teletraffic and Datatraffic in a Period of ..., 1991 - North-Holland

Cited by 46 - Related articles - All 2 versions

... memory and a means for recovering from failure and **reconfiguring** a control unit ...

BC Beardsley, SK Candelaria, BS Powers, ... - US Patent ..., 1995 - Google Patents

... MARK CACHE-A AS UNAVAILABLE MARK NVS-B AS UNAVAILABLE \ 336 **RECONFIGURE**
 TO USE NVS-A ... cache memory and 20 a system for recovering from failure and **reconfiguring**
 the control ... 5 is a flow diagram of an illustrative recovery and **reconfiguration** mode in the ...

Cited by 28 - Related articles - All 2 versions

... and method for automatically reconfiguring telephone network resources

EK Cave, DH Hammond, MJ Polcyn - US Patent 4,959,854, 1990 - Google Patents

... apparatus and method are provided for automatically managing and **reconfiguring** resource
 modules ... dynamically to a Per-module 302 so as to have that module **reconfigure** itself from ... during
 said particular telephone connection source module 302, can be **reconfigured** any number ...

Cited by 17 - Related articles - All 2 versions

Optimal reconfiguration functions for column or data-bit built-in self-repair

psu.ed

M Nicolaïdis, N Achouri, S Boutobza - ... and Test in Europe-Volume 1, 2003 - portal.acm.org

... However, it does not propose BISR circuitry for **reconfiguring** the memory. ... The circuit has a similar complexity as the sequential **reconfiguration functions** for local repair. ... The idea is to **reconfigure**
 the memory inputs/outputs in a dynamic manner, instead of static one. ...

Cited by 18 - Related articles - All 16 versions

A reconfigurable concurrent function block model and its implementation in real- ...

psu.ed

RW Brennan, X Zhang, Y Xu, DH Norrie - Integrated Computer-Aided ..., 2002 - IOS Press

... of approaches to enable real-time distributed systems to automatically **reconfigure** to adapt ... such
 as how **function** block applications can be configured and **reconfigured** on-the ... ways), though
 the prototype did not support a means of dynamically **reconfiguring** these applications ...

Cited by 36 - Related articles - All 8 versions

Hot removable and insertion of attachments on fully initialized computer systems

YC Lien, H Sone, K Sekiya, Y Kanada - US Patent 5,386,567, 1995 - Google Patents

... the resource manager in the system unit shown in these figures would **reconfigure** as before ...
 display driver information stored by the respective display unit, and the **reconfigured** system would ...
 to said one or more slots, an arrangement for dynamically **reconfiguring** said computer ...

Cited by 101 - Related articles - All 2 versions

Network Dispatcher: A connection router for scalable Internet services

GDH Hunt, GS Goldszmidt, RP King, R ... - Computer Networks and ..., 1998 - Elsevier

... and (iv) **reconfigure** RRDNS to resume giving out the IP address to new clients. ... the nodeup event
 causes (i) restart of the SP switch networks on the node (ii) **reconfiguration** of the ... To address this
 issue Network Dispatcher has been augmented with primary backup **function** [23]. ...

Reconfiguration with time division multiplexed MIN's for multiprocessor ...

C Qiao, R Melhem - IEEE Transactions on Parallel ..., 1994 - doi.ieeecomputersociety.org

... from 1 to n from left to right (where n = log N and all log **functions** in this ... set the switch by using the external signal control-set (as is the case in dynamic **reconfiguration**), the signal ... In order to efficiently partition a set of arbitrary **connections**, which may not be a permutation, into ...

Cited by 69 - Related articles - All 17 versions

... LUT-based network topologies for dynamic and partial FPGA self-reconfiguration

M Huebner, T Becker, J Becker - Proceedings of the 17th ..., 2004 - portal.acm.org

... With the speed capacity of 66 Mbyte/s it is possible to **reconfigure** one slot in 1.8 ms. ... If a slot has to be **reconfigured**, the response time is smaller than 10 ms. ... A new possibility of **reconfiguring** rectangular shaped areas for a better utilization of the area will be developed on the ...

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